

Product datasheet for **RC228405**

RANBP3L (NM_001161429) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	RANBP3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC228405 representing NM_001161429
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGACTACCATACCAAGAAAAGGCAGCAGCCACCTGCCTGGCAGTTGCACACCTGTAAGCTGAAGCTGC
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 AACTTTTAAGAGACCTGCAGAAGACACCTGTATGAAGCAGCAGAACCAAGATGTAATGGTTTTCCAACA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC228405 representing NM_001161429
 Red=Cloning site Green=Tags(s)

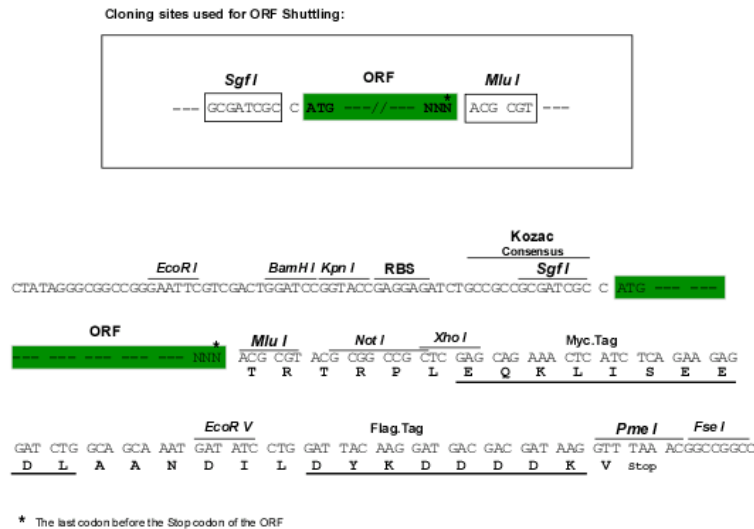
MTTIPRKGS SHLPGLHTCKLKLQEDRRQEQESVIAQPIFVFEKGEQTFKRPAEDTLYEAAEPECNGFPT
 KRVRSSTTFHITDSQSQGVSTLSQKQMRCSVTNLPTFPHSGPVRKNNVFMFSALVQSSVDIKSAEQGP
 VKHSHVIRPAILQLPQARSCAKVRKTFGHKALESCKTKEKTNNKISEGNSYLLSENLSRARISVQLSTN
 QDFLGATSVGCQPNEDKCSFKSCSNFVFGENMVERVLGTQKLTPQLEND SYAKEKPFKSIPKFPVNF
 SSRTDSIKNTSLIESAAAFSSQPSRKCLLEKIDVITGEETEHNVLKINCKLIFNKTTSWIERGRGTLR
 LNDTASTDCGTLQSRLIMRNQGSRLILNSKLWAQMKIQRANHKNVRITATDLEDYSIKIFLIQASQDT
 AYLYAAIHHRLVALQSFNKQRDVNQAESLSETAQQLNCECDENEDDFIQVTKNQSDPSSWTHRQSVACS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8063_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161429

ORF Size: 1470 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

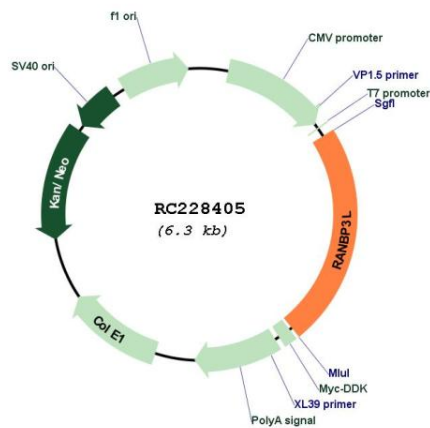
RefSeq: [NM_001161429.3](#)

RefSeq ORF: 1473 bp

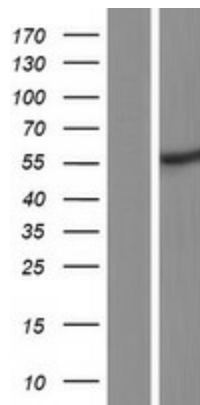
Locus ID: 202151
UniProt ID: [Q86VV4](#)
Cytogenetics: 5p13.2
MW: 54.7 kDa

Gene Summary: Nuclear export factor for BMP-specific SMAD1/5/8 that plays a critical role in terminating BMP signaling and regulating mesenchymal stem cell differentiation by blocking osteoblast differentiation to promote myogenic differentiation. Directly recognizes dephosphorylated SMAD1/5/8 and mediates their nuclear export in a Ran-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228405



Western blot validation of overexpression lysate (Cat# [LY431433]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228405 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).